

- PROFINET IO interface with PROFIsafe protocol
- Type with hollow shaft
- Functional safety according to
 - EN 61508: SIL CL3
 - EN ISO 13849: PL e
- 13 Bit resolution, 32768 revolutions
- Incremental signals for position feedback, 4096 pulses
- Construction type: Hollow shaft Ø20 H7 with feather keyway
- Degree of protection: IP54 (labyrinth seal) and IP66 (axial shaft seal)



Electrical Data

Supply voltage	13...27 V DC, SELV/PELV
Current consumption without load	< 180 mA, at 24 V DC
PROFINET IO - Device	IEC 61158, IEC 61784-1; PROFIsafe profile: No. 3.192b
Singleturn resolution	13 Bit (8192 steps/revolution)
Multiturn resolution	15 Bit (32768 revolutions)
Output code	Binary
Additional features	Preset
Incremental output without reference pulse	4096 pulses
Cycle Time	≥ 1 ms (IRT / RT)
Transmission rate	100 Mbit/s
Huebner specific functions ¹⁾	velocity output in increments/integration time, safe
Safety principle	2 redundant scanning systems with internal cross comparison
Safety of the total system <ul style="list-style-type: none"> - T₁, proof test - PFH, "High demand" operating mode - PFD_{av} (T = 20 a) - MTTF_d high - DC_{avg} high 	20 years 1.46 * 10 ⁻⁹ /h 1.27 * 10 ⁻⁴ 421 a 95 %
Parameter ¹⁾ <ul style="list-style-type: none"> - Integration time, safe / unsafe - Size of monitoring window - Standstill tolerance Preset - Direction of counting 	50 ms...500 ms / 5 ms...500 ms 50...4000 increments 1...5 increments/integration time, safe Forward, Backward
¹⁾ secured programmable parameter	

Mechanical Data

Mass	approx. 3.1 kg
Mechanically permissible speed <ul style="list-style-type: none"> - Degree of protection IP54 - Degree of protection IP66 	≤ 4000 min ⁻¹ ≤ 2000 min ⁻¹
Rotor moment of inertia <ul style="list-style-type: none"> - Degree of protection IP54 - Degree of protection IP66 	approx. 1085 gcm ² approx. 785 gcm ²
Breakaway torque <ul style="list-style-type: none"> - Degree of protection IP54 - Degree of protection IP66 	approx. 2.0 Ncm approx. 2.0 Ncm

